

FORM PTO-1449**INFORMATION DISCLOSURE CITATION
IN AN APPLICATION PURSUANT TO
37 CFR §1.97 & 1.98**Docket Number:
4015-5177

Serial Number:

Applicant:
Bottomley et al.Filing Date:
March 29, 2004

Group:

U. S. PATENT DOCUMENTS

Examiner						Filing Date	
Initial		Patent No.	Date	Name	Class	Subcl	If Approp.
	A	6,683,924	2004	Ottosson et al.			
	B	6,363,104	2002	Bottomley			
	C	6,026,115	2000	Higashi et al.			
	D	5,983,105	1999	Stahle			
	E	5,572,552	1996	Dent et al.			
	F	6,470,044	2002	Kowalski			

FOREIGN PATENT DOCUMENTS

						Translation	
		Patent No.	Date	Name	Class	Subcl	Yes No
	A	WO 01/01595	2001	Wang et al.			
	B	EP 1 289 162	2003	Papasakellarios			
	C	WO 01/71927	2001	Liberti et al.			
	D	WO 99/65153	1999	Kowalewski			

OTHER DOCUMENTS (including author, title, date, pages, etc.)

	A	U.S. Patent Application Publication, Pub. No.: US 2002/0122470 A1; Sept. 5, 2002.
	B	U.S. Patent Application Publication, Pub. No.: US 2001/0028677 A1; Oct. 11, 2001.
	C	R. McDonough and A. Whalen, "Detection of Signals in Noise, Second Edition, Academic Press.
	D	G. Bottomley, T. Ottosson, and Y. Wang, "A Generalized RAKE Receiver for Interference Suppression," <i>IEEE Journal on Selected Areas in Communications</i> , Vol. 18, No. 8, August 2000, pp. 1536-1545.
	E	H. Liu and M. Zoltowski, "Blind Equalization in Antenna Array CDMA Systems," <i>IEEE Transactions on Signal Processing</i> , Vol. 45, No. 1, January 1997, pp. 161-172.
	F	J. Choi, "Pilot Channel-Aided Techniques to Compute the Beamforming Vector for CDMA Systems with Antenna Array," <i>IEEE Transactions on Vehicular Technology</i> , Vol. 49, No. 5, September 2000, pp. 1760-1775.
	G	I.S. Reed, J.D. Mallett, and L.E. Brennan, "Rapid Convergence Rate in Adaptive Arrays," <i>IEEE Transactions on Aerospace and Electronic Systems</i> , Vol. AES-10, No. 6, November 1974, pp. 853-863.

H	C.G. Khatri and C. Radhakrishna, "Effects of Estimated Noise Covariance Matrix in Optimal Signal Detection," <i>IEEE Transactions on Acoustics, Speech, and Signal Processing</i> , Vol. ASSP-35, No. 5, May 1987, pp. 671-679.
I	B. Suard, A. Naguib, G. Xu and A. Paulraj, "Performance of CDMA Mobile Communication Systems Using Antenna Arrays," <i>Proc. IEEE Intl. Conf. Acoust., Speech, & Signal Proc. (ICASSP)</i> , Minneapolis, MN, Apr. 27-30, 1993, pp IV-153 to IV-156.
J	G. Kutz and A. Chass, "On the Performance of a Practical Downlink CDMA Generalized RAKE Receiver," <i>IEEE VTC 2002 Fall</i> , Vancouver Sept. 24-28.
K	G. Kutz and A. Chass, "Low Complexity Implementation of a Downlink CDMA Generalized RAKE Receiver," <i>IEEE VTC 2002 Fall</i> , Vancouver Sept. 24-28.
L	Y. Wang and G. Bottomley, "Generalized RAKE Reception for Cancelling Interference from Multiple Base Stations," <i>IEEE VTC 2000</i> .
M	Petre et al, "Pilot-aided Adaptive Chip Equalizer Receiver for Interference Suppression in DS-CDMA Forward Link," <i>Vehicular Technology Conference Fall 2000</i> , September 24-28, 2000, 2.4.2.2.
N	Wang, Y.-P. Eric and Bottomley, Gregory E. Bottomley, "CDMA Downlink System Capacity Enhancement through Generalized RAKE Reception," in <i>Proc. IEEE Veh. Technol. Conf.</i> , Atlantic City, NJ, Oct. 7-11, 2001.
O	Chowdhury, S., and Zoltowski, M.D., "Combined MMSE equality and multiuser detection for high-speed CDMA forward link with sparse multipath channels," <i>Conference Record of Thirty-Fifth Asilomar Conference on Signals, Systems and Computers</i> , 4-7 November 2001, Vol. 1, (Abstract).
P	Hai, Wang, Ramesh, R., Bottomley, Gregory E., and Wang, Y.-P Eric, "Approaches for fast, adaptive, generalized rake reception," <i>Research Disclosure Journal</i> , 475041, Nov. 2003, Kenneth Mason Publ. Ltd.

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation not in conformance and not considered. Include copy of this form with next communication to the applicant.